

smORFs Identification

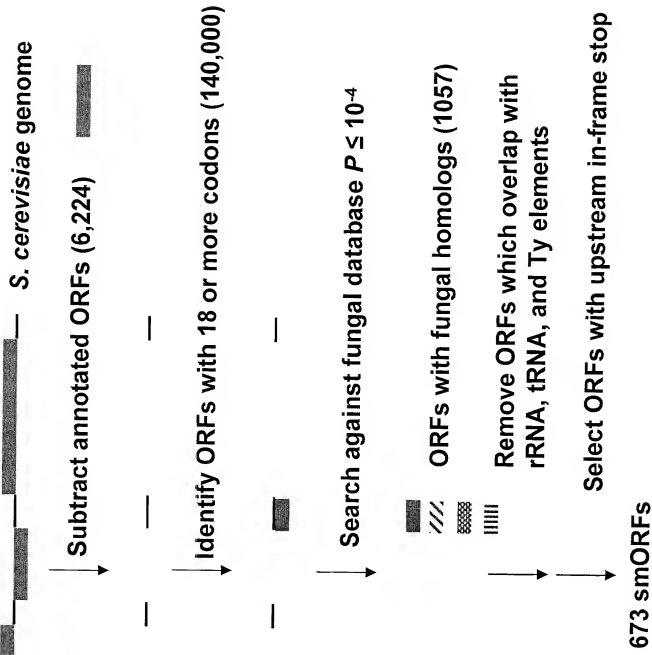


Fig. 1

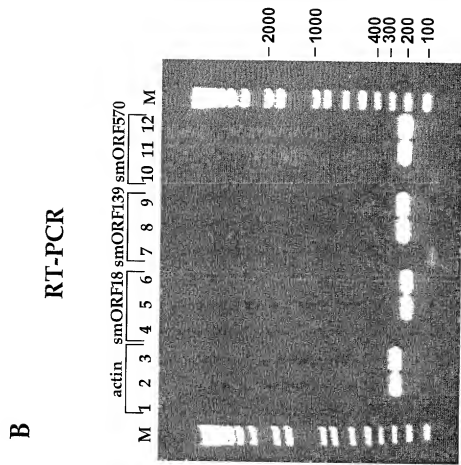
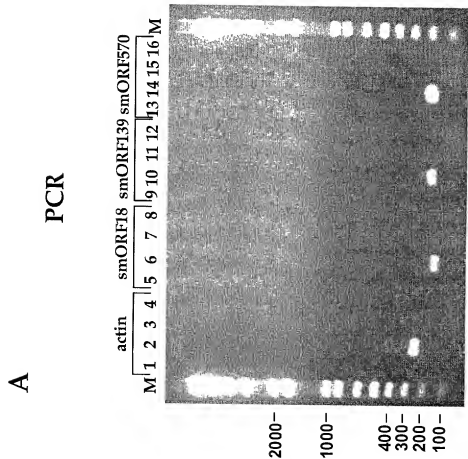


Fig. 2

Two step orientation-specific RT-PCR

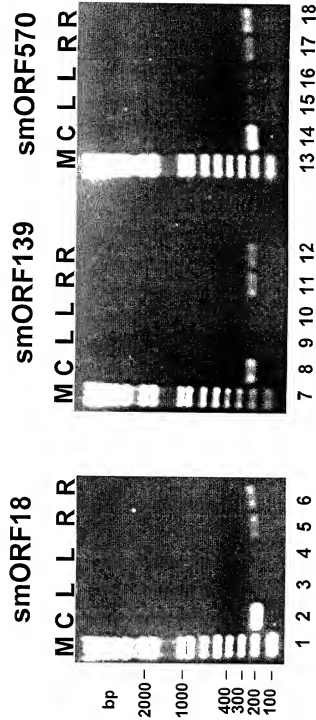
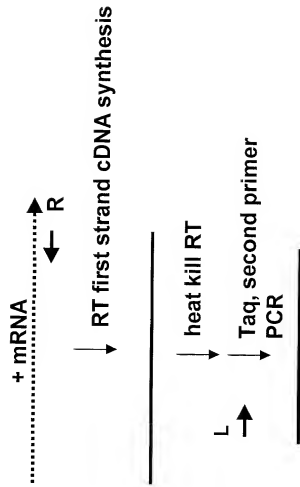


Fig. 2

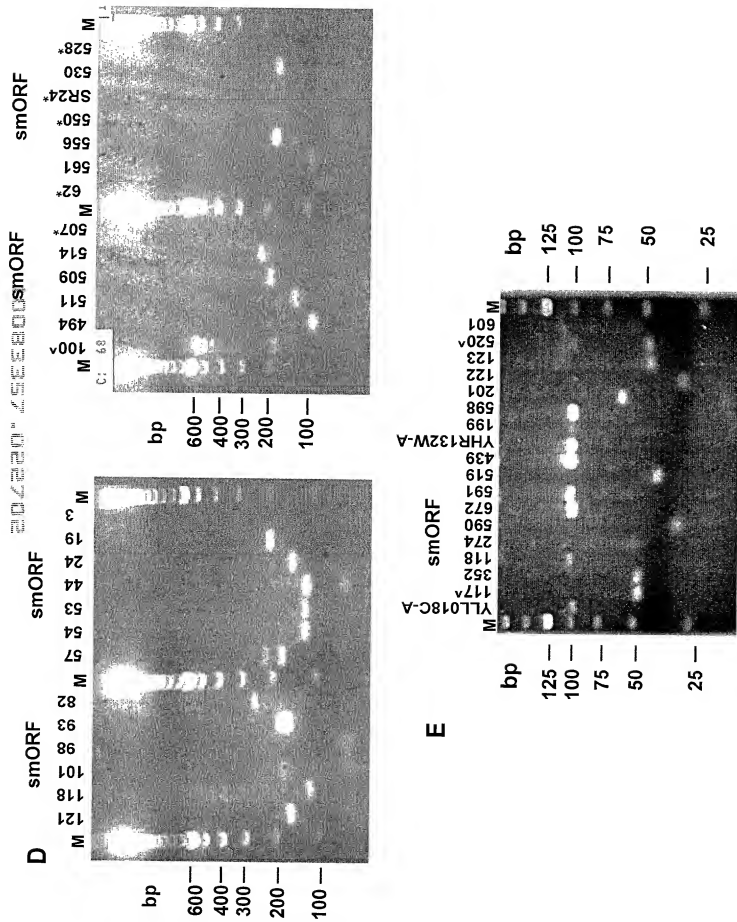


Fig. 2

smORF18

Dm : M-----HDEVEIEDFEYDEEYAYPCPCGDFEESKELLGGEVA CPSCSLVI VIYDERMKADEDEE--GALNEKLGDKLEIN
 Hs : MAV-----HDEVEIEDQYTESITYPCPCGDFESIKELLNGEVA CPSCSLII VIYKDQVCGTYP--AAS---ANKELVGC
 Ce : MSV-----HDEVEIEDFEFEKDYPCPCGDFEIPRMLMGEVA CPSCSLII VIYDDEPFPKLETTIS--MSK---PTEPEV--
 Sp : MS-----HDEVEIEDFEAGNITYPCPCGDFEISIKELLGGEVA CPSCSLIV VIYEDEEVDNDG--STA---PHTAA--
 Sc : MS-----HDEVEIEDFEPEPENGFTVPCPCGDFEYIDMGEVA CPSCSLMIDVVFKEALAEYEPAGH--PB---PIAFA--
 Ca : ME-----HDEVEIEDFEPVOLFPCPCGDFEATSEIMOMGEVA CPSCSLMVFIFEPDELEYLEG-----
 Af : MADEALSIHDEVEIEDMFPILOYVPCPCGDFEFAIDHLDGEIA CPSCSLMI VIFVUS LPKDGVP--APGA---VSVOA--
 An : MADEALSIHDEVEIEDMFALLOYVPCPCGDFEFAIDDLRYGEIA CPSCSLMI VIFQSILPKDEKKE--EE---VSKKQ--

smORF139

Sc : MPKILSGLOKVLHRYASITTHIKKENOVAFVNYHHEFEYRNLRFETIE LLAR CNKCATETHPILNTI--
 Ca : MR--LSGLQRDVLQYRCIMVKKIDIEHMANFHEFEAYHDKKQFMTEYLTRNGHRIENYLPLDID--
 Af : MR--LSGLQRVLSYRKLIEIKKESERGFVTRTEFKKIMVSKKFAIEYLLRKGRQREYVSGIENIQ--
 Sp : MR--LSGLQRVLYRSLIEIAKEOPYERMMFPHCEEFKNOISKRFYIE LLAR GORYEAYSREPIVDHRS--

smORF570

Sc : -----NSALFNERSLLQV LLALICS SYTHCOMP LLLEVYNHEVEIEDFWKARVGERASPVVSLACLMAG--QFNS--
 Ca : KPSTSPTNALNSALFNERSLLQV LLALICTYTHETPAILDNRSGLISFWKFARIGERSLXPVALGCCFMAN--TESS--
 Bt : -----NSALFNERSLLV LLALICTYVRSAP LLDDN--HGLLSFWKARIGER SPXVAVCCVMAFS--TIFET--
 Hs : -----NSALFNERSLLV LLALICTYVRSAP LLDDN--HGLLSFWKARIGER SPXVAVCCVMAFS--TIFET--
 Mm : -----NSALFNERSLLV LLALICTYVRSAP LLDDN--HGLLSFWKARIGER SPXVAVCCVMAFS--TIFET--
 Dm : -----NSALFNERSLLV LLALICTYVRSAP LLDDN--HGLLSFWKARIGER SPXVAVCCVMAFS--TIFET--
 Af : -----NSALFNERSLLV LLALICTYVRSAP LLDDN--HGLLSFWKARIGER SPXVAVCCVMAFS--TIFET--

Fig. 3

213 —
 128 —
 85 —
 42.6 —
 31.2 —
 18 —
 8.5 —

markers

wildtype

smORF18-HA₃

smORF18-HA₃

1 2 3 4

Fig. 4

20/000-1558901

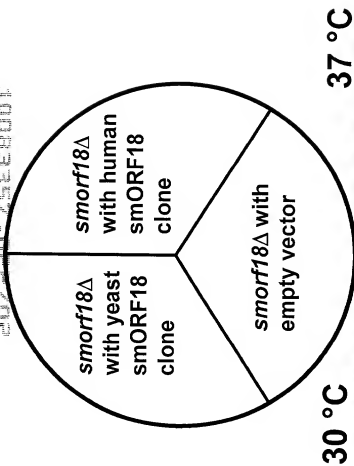


Fig. 5

smORF57 protein interaction map

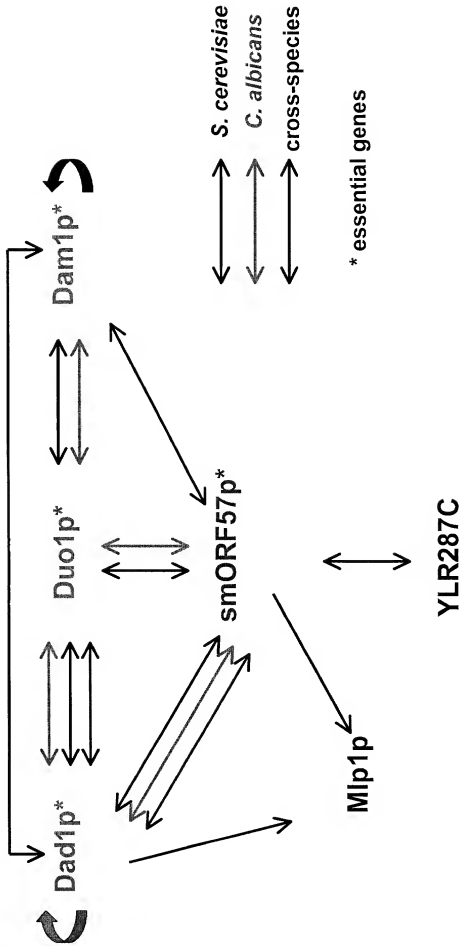


Fig. 6